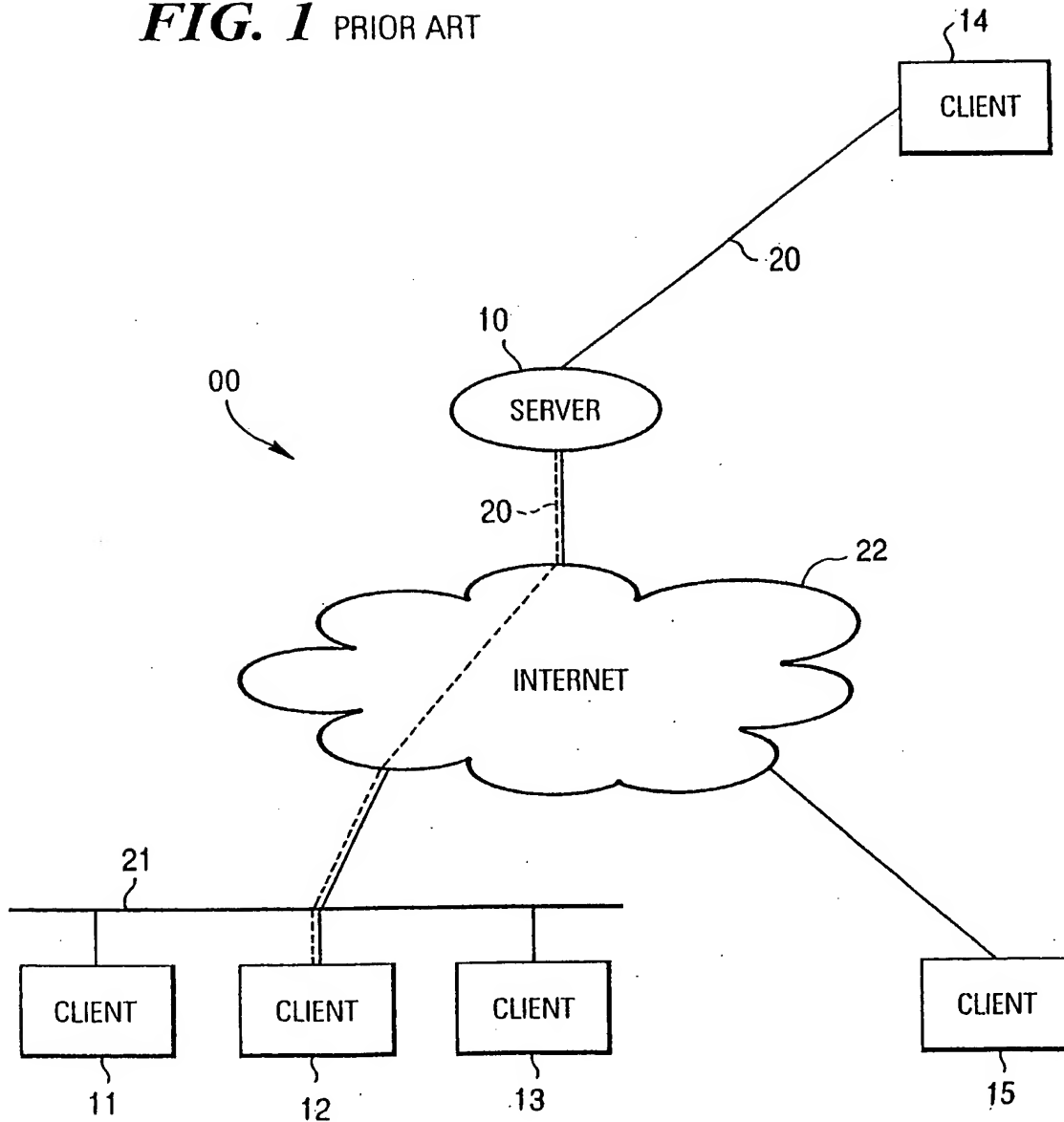


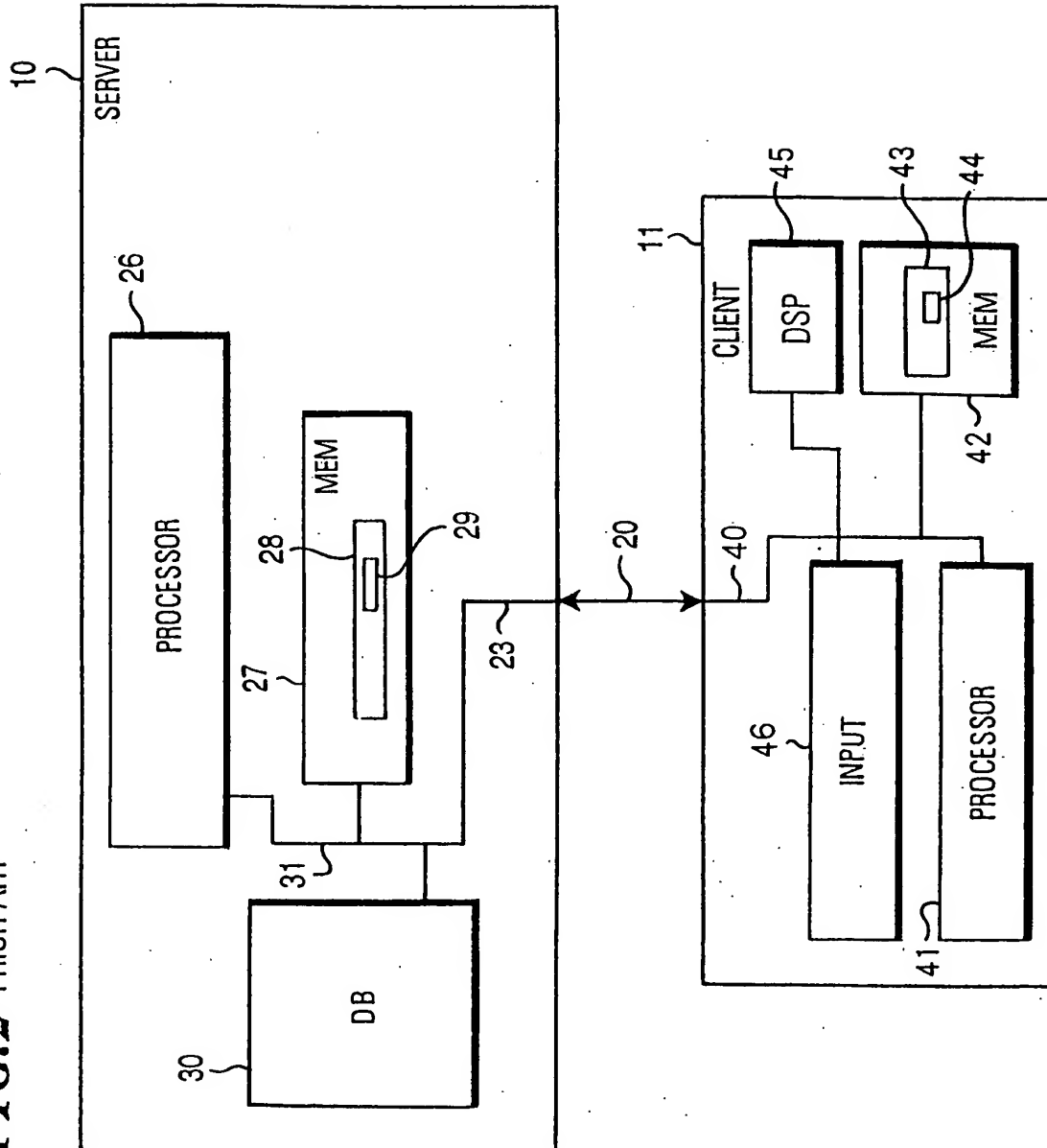
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**FIG. 1** PRIOR ART



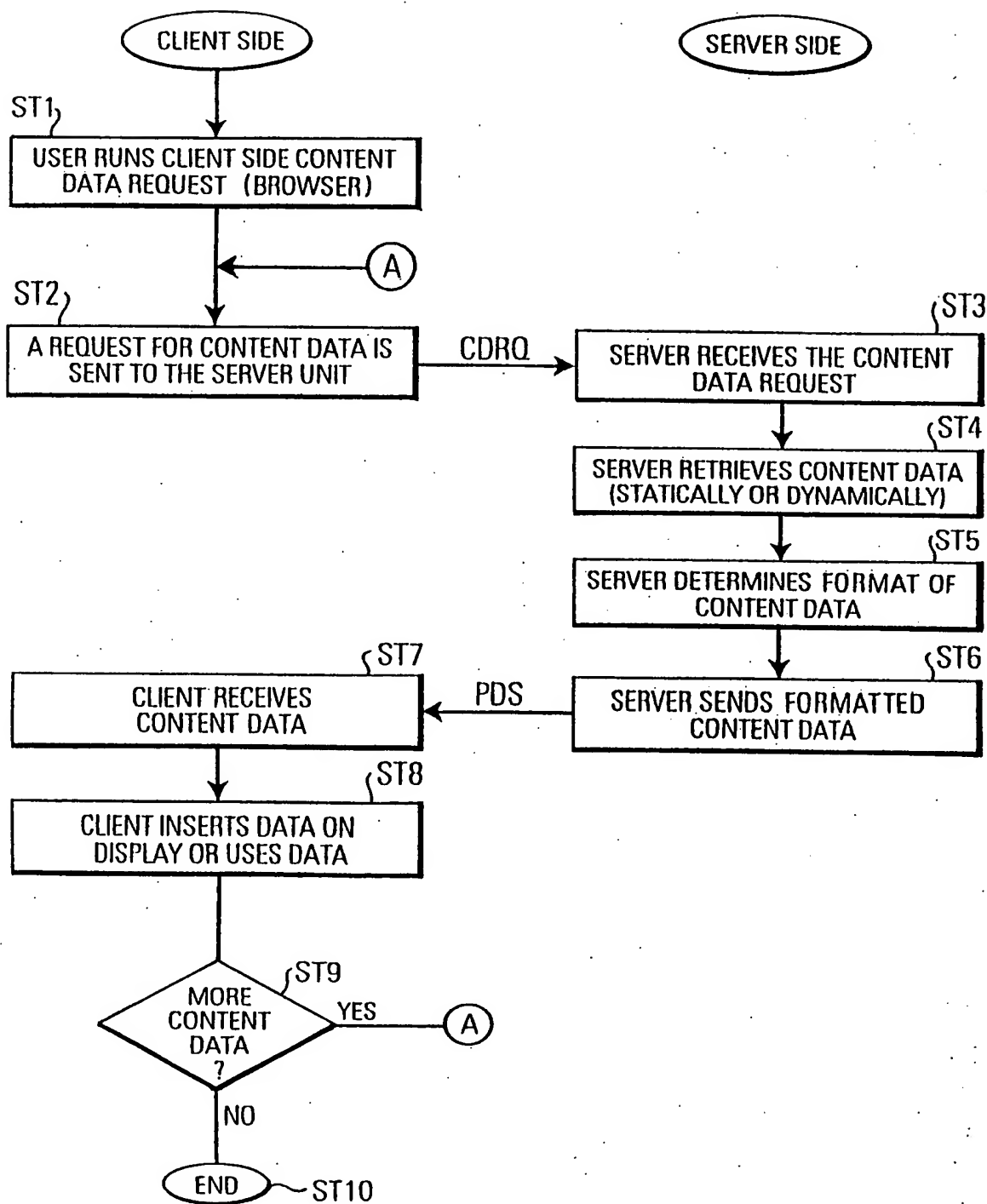
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**FIG.2** PRIOR ART



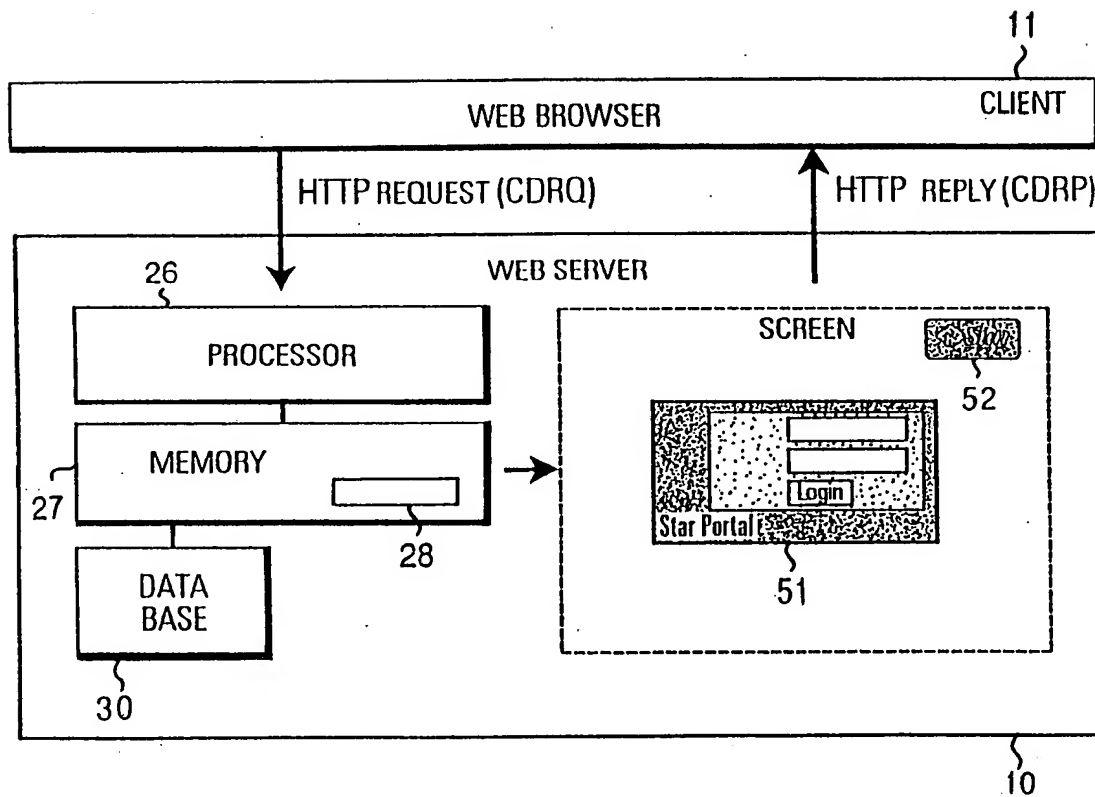
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**FIG.3** PRIOR ART



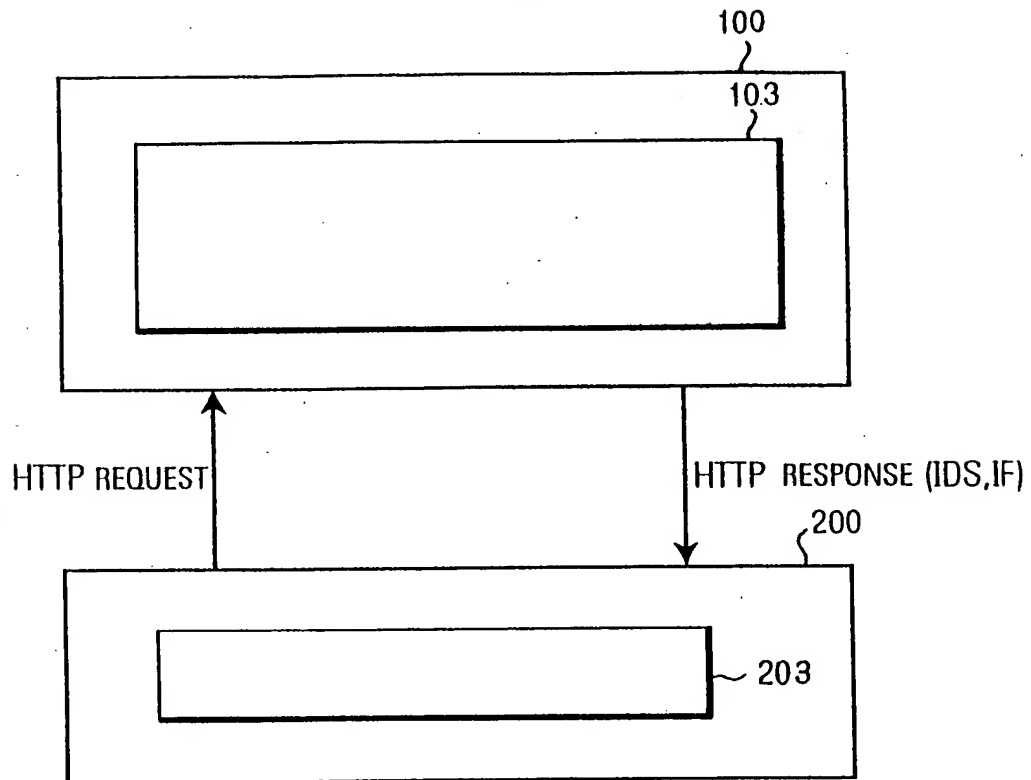
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**FIG. 4** PRIOR ART

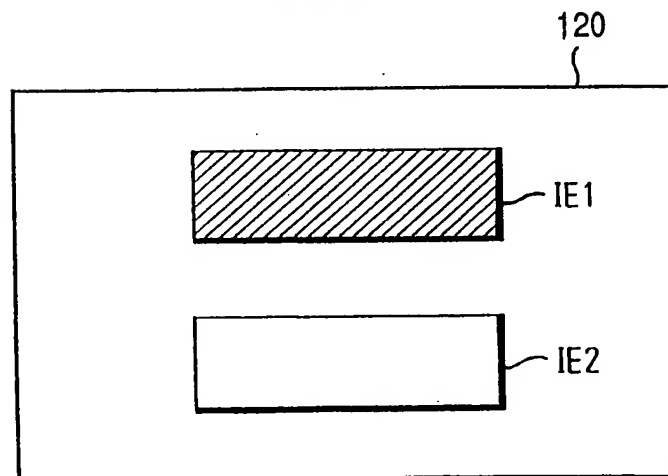


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**FIG. 5a**



**FIG. 5c**



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**FIG. 5b**

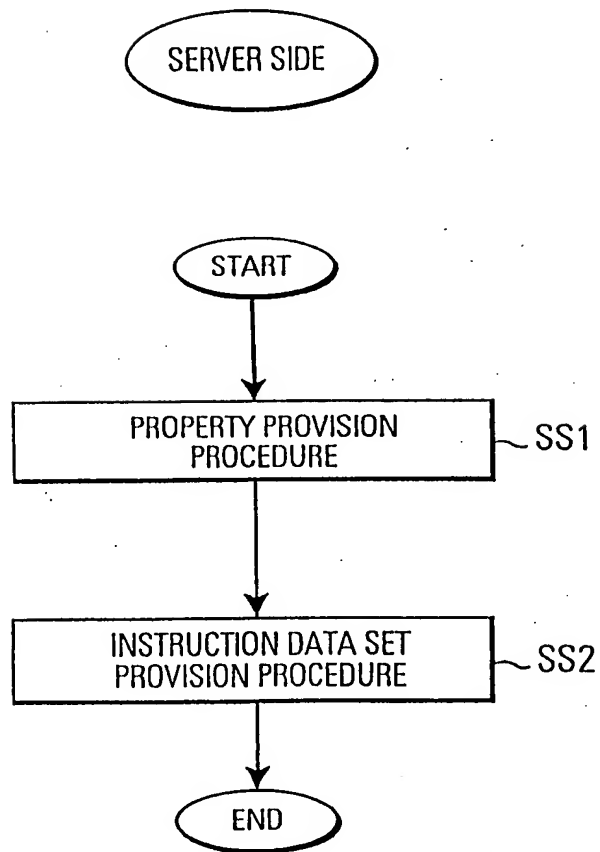
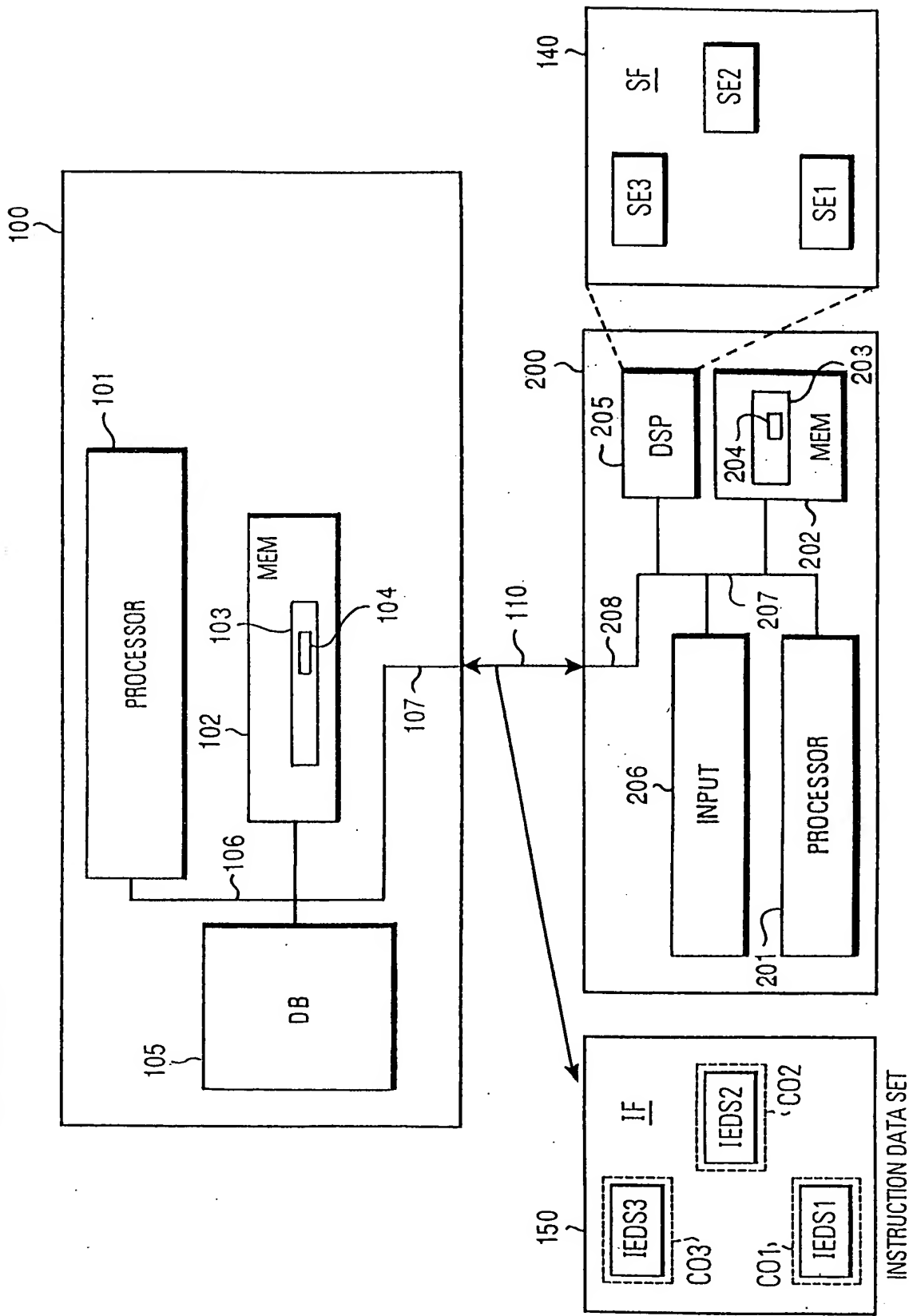
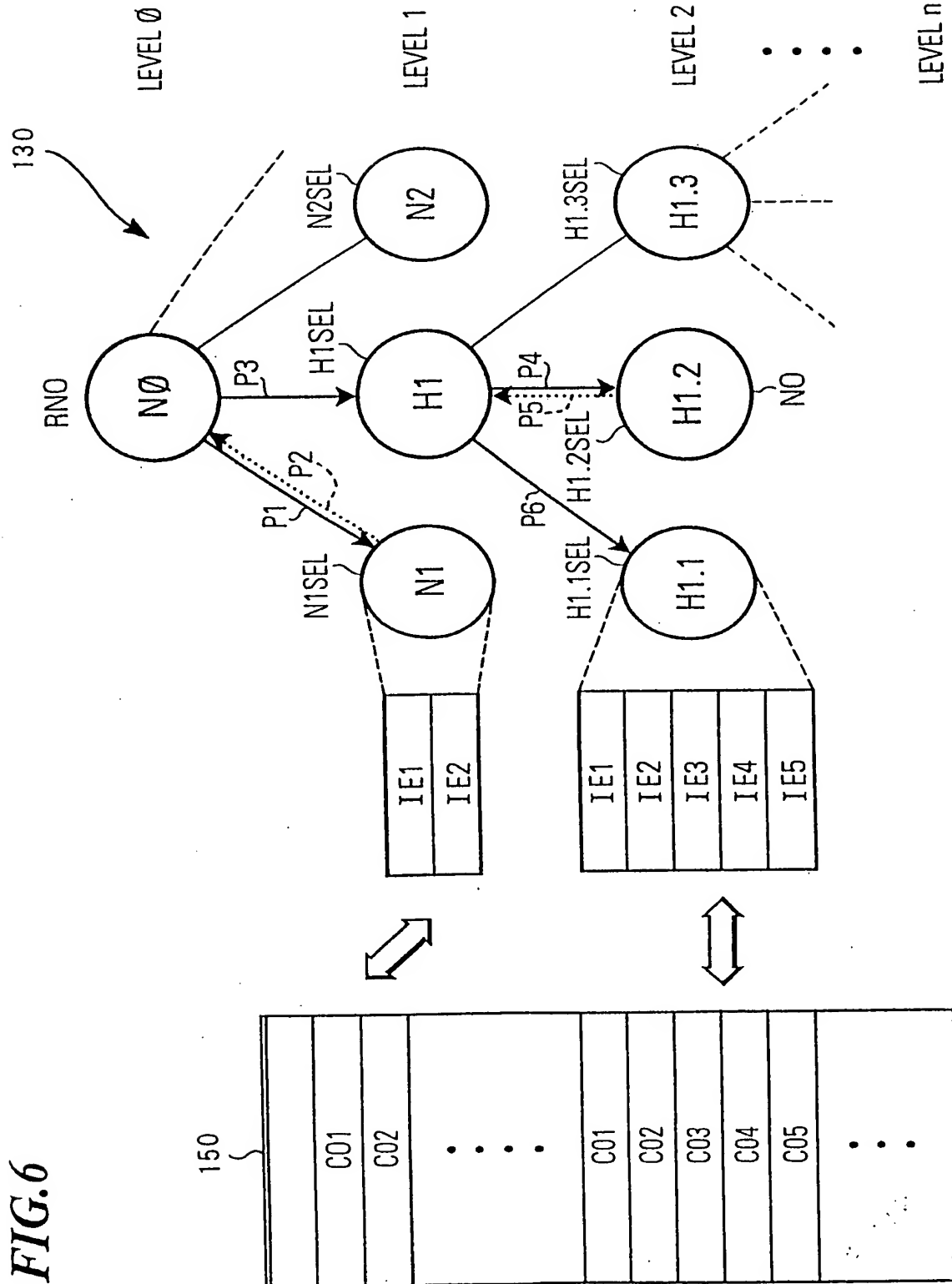


FIG. 5d



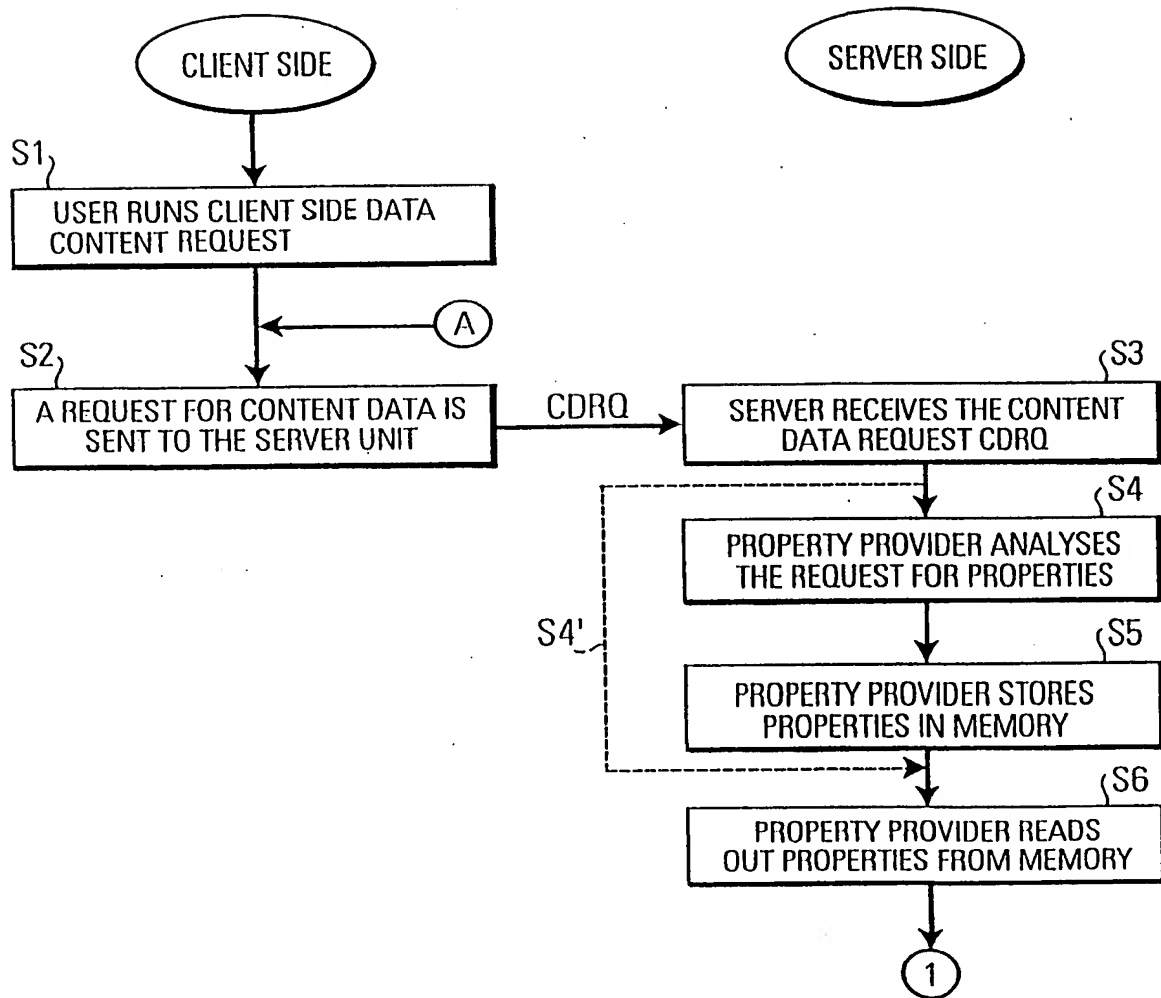
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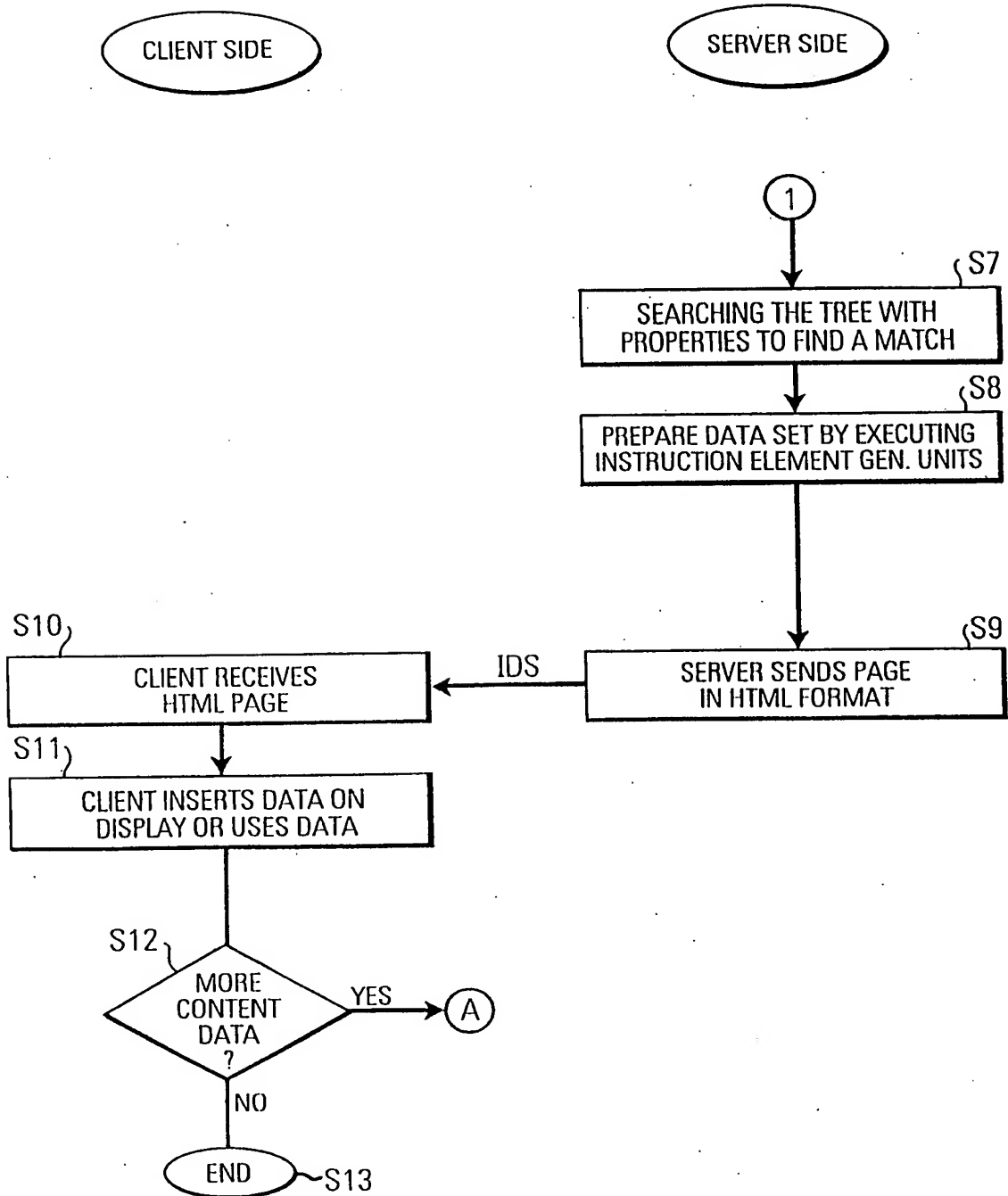
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**FIG. 7a**



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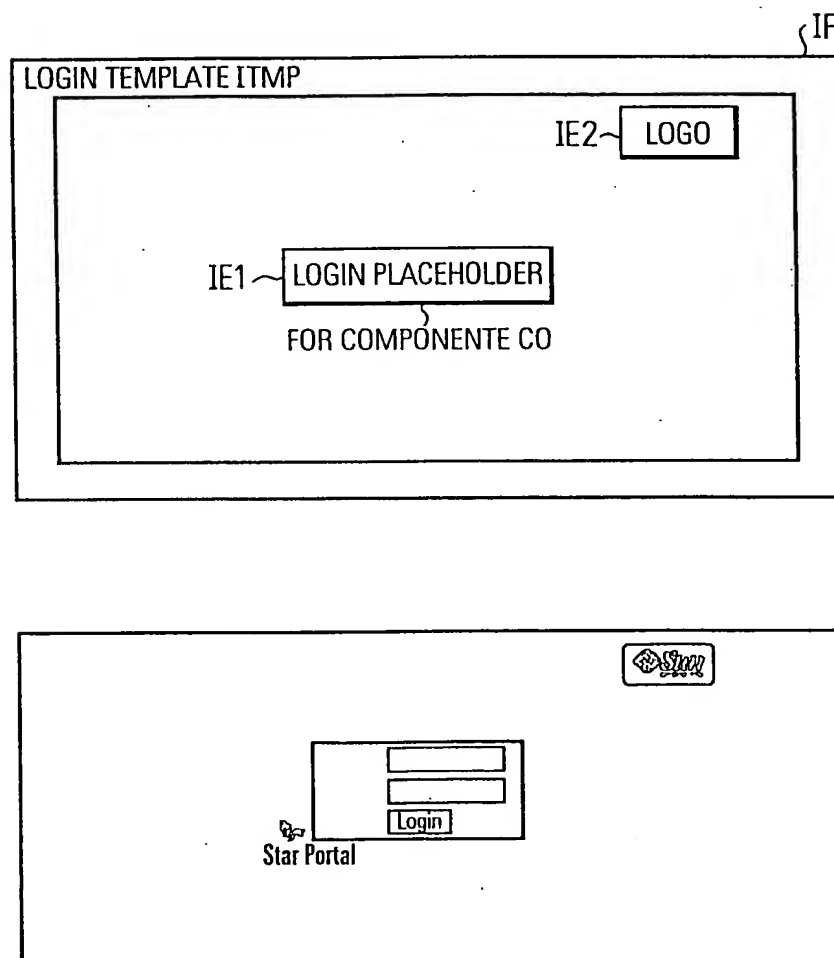
**FIG. 7b**





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**FIG. 8b**



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**FIG. 8c**

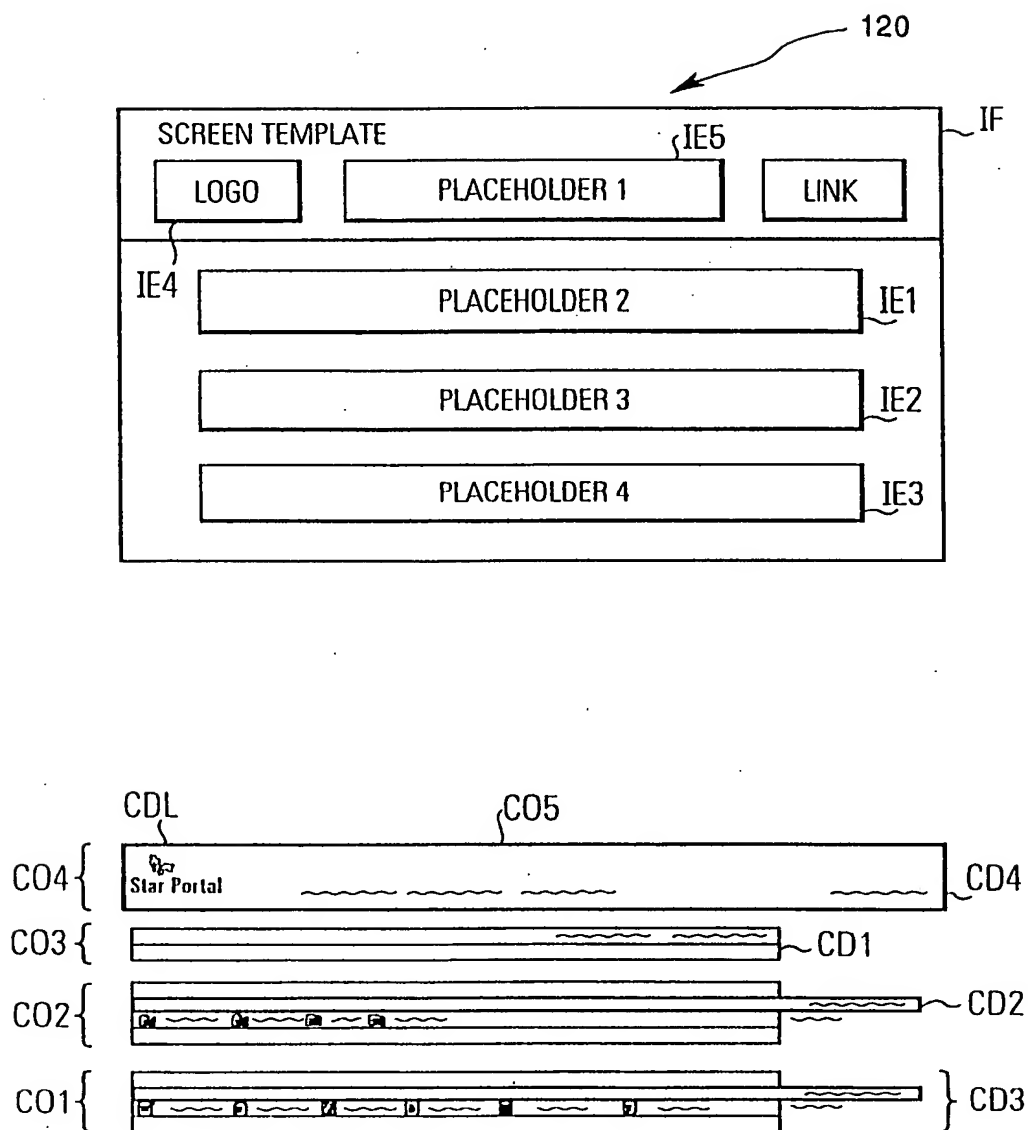
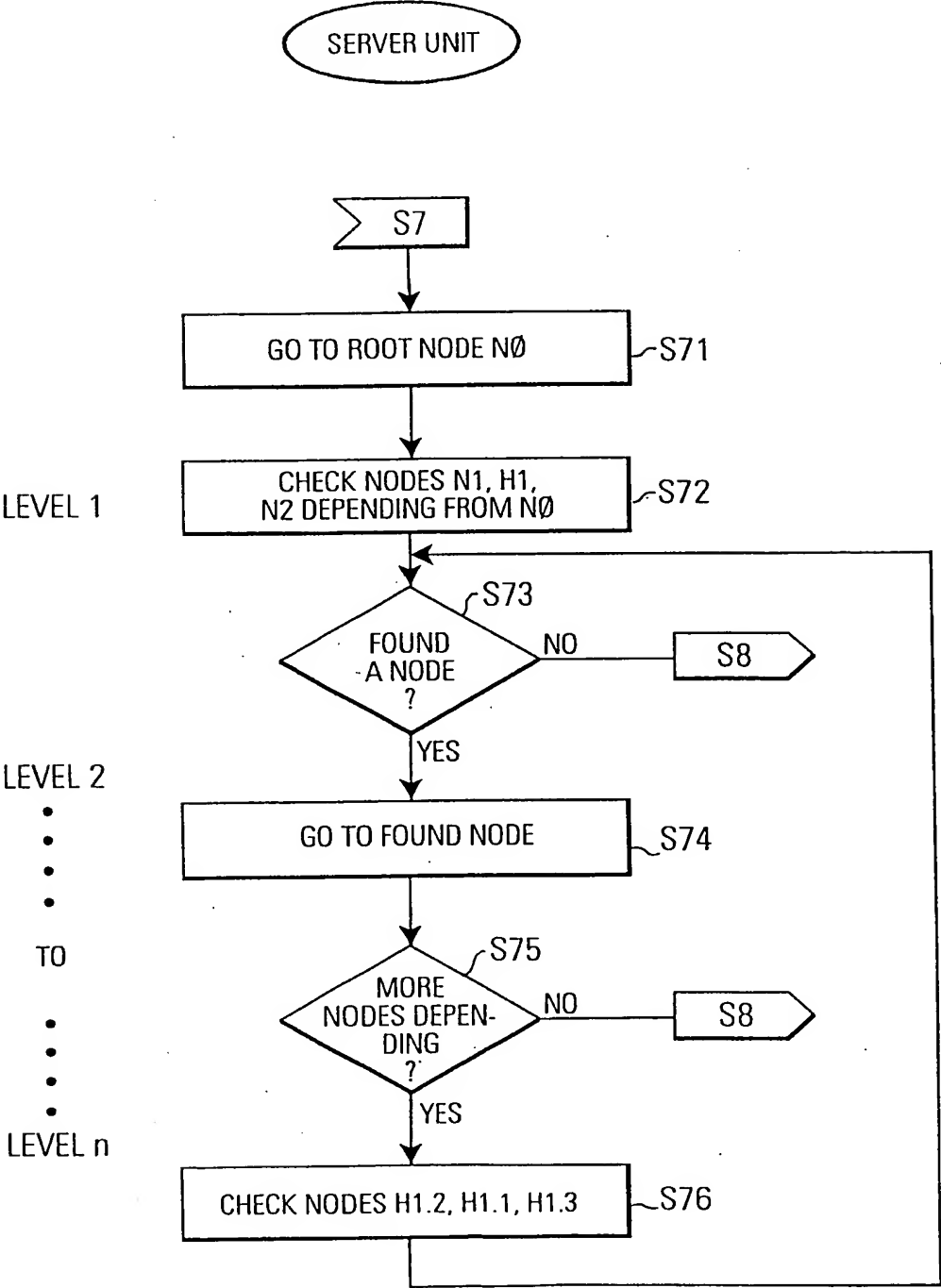
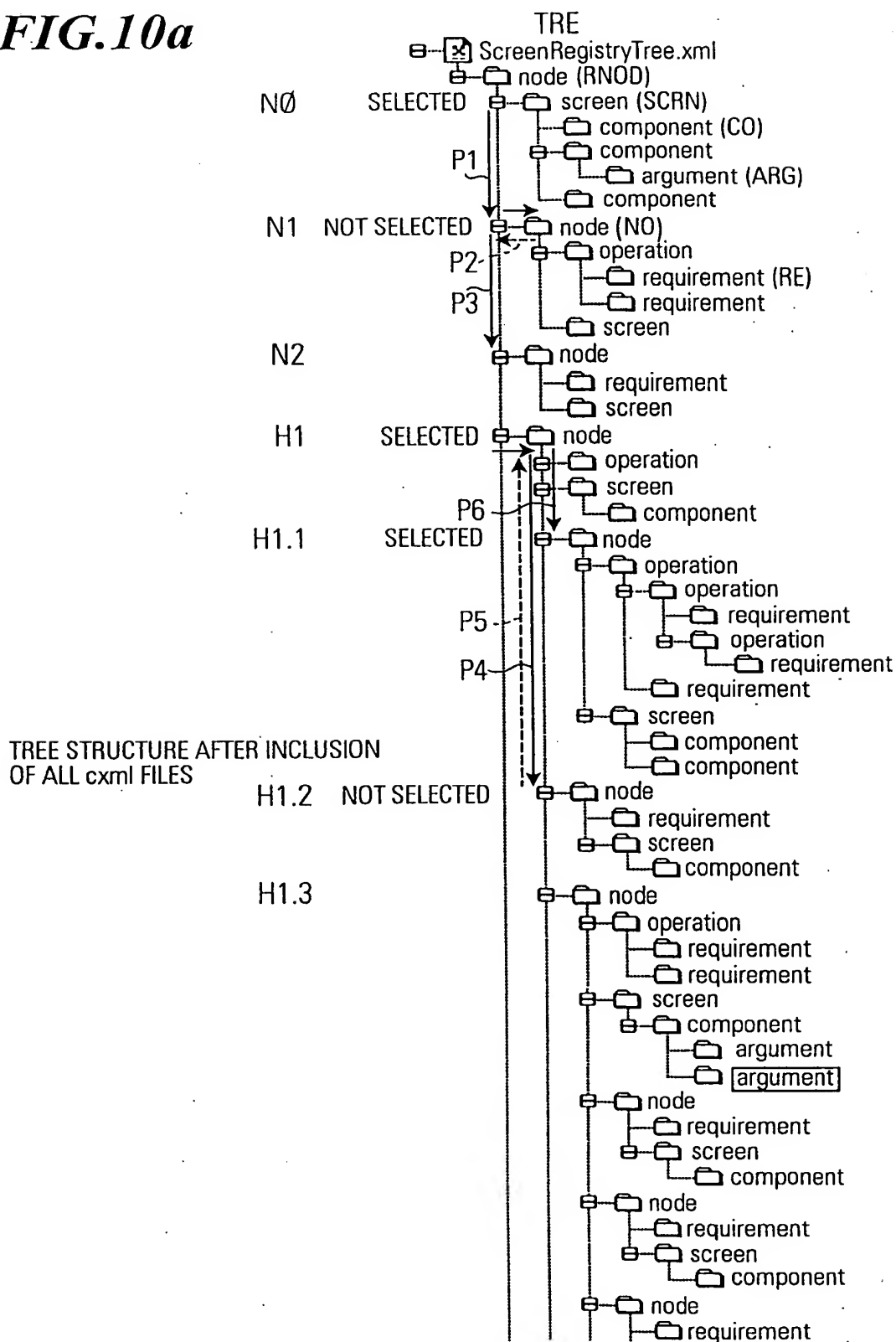


FIG. 9



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**FIG. 10a**



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## FIG. 10b

xml file for main nodes

MAIN

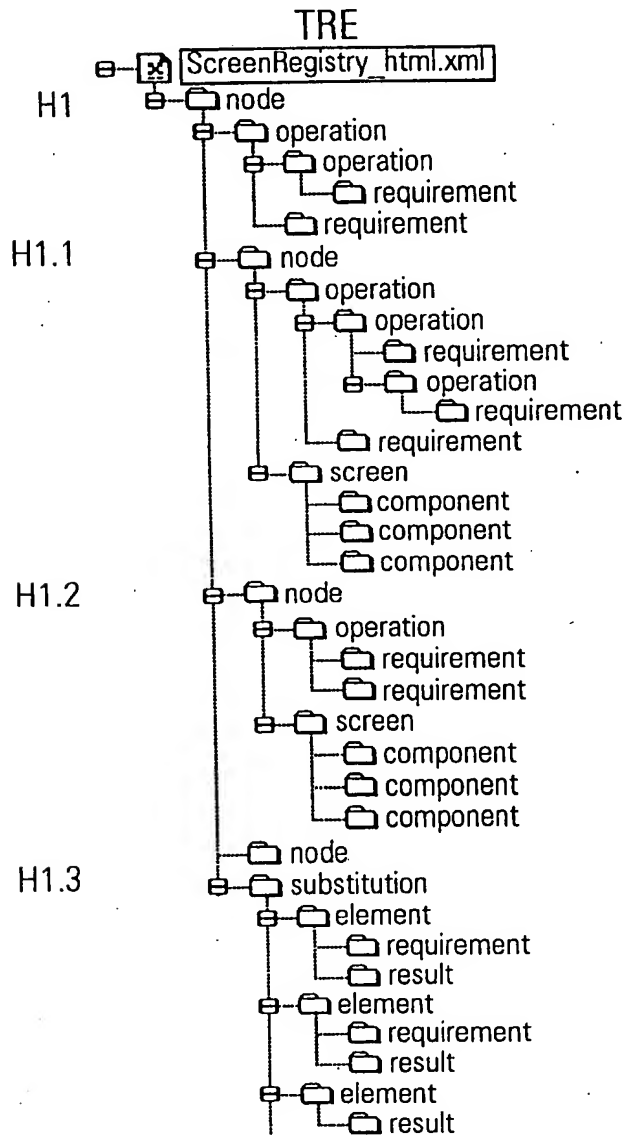
```
<?xml version="1.0" encoding="ISO-8859-1"? >
<!-- screen definitions -->
- <node>
  <!-- default screen -->
  - <screen template="/html/HTMLTemplate.jsp" class="default">
    NO <component name="Title" value="www.mydomain.com" direct="true"/>
    - <component name="Background" value="/html/HTMLBackground.jsp"/>
      <argument name="picture" value="$BACKGROUND_PICTURE"/>
    </component>
    <component name="Error" value="/html/HTMLError.jsp"/>
  </screen>
  <!-- execute login -->
  - <node>
    RETYP
    - <operation type="and">
      N1 <requirement type="requestParameter" name="cmd"
        value="execute_login"/>
      <requirement type="executionEnvironment" name="loginBean"
        value="null"/>
    </operation>
    <screen template="/portal/login" class="login"/>
  </node>
  <!-- logout -->
  - <node>
    N2 <requirement type="requestParameter" name="cmd" value="logout"/>
    <screen template="/portal/logout" class="logout"/>
  </node>
  <!-- include screen definition files for different devices supported
  -->
  <include file="etc/screenregistries/portal/ScreenRegistry_wml.xml" />
  <include file="etc/screenregistries/portal/ScreenRegistry_pqa.xml" />
  <include file="etc/screenregistries/portal/ScreenRegistry_xul.xml" />
  <include file="etc/screenregistries/portal/ScreenRegistry_html.xml" />
</node>
```



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## FIG. 10c

TREE VIEW FOR SOME HTML NODES OF THE SCREEN REGISTRY



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**FIG.10d** xml file of HTML nodes

HTML

```
<?xml version = "1.0" encoding = "ISO-8859-1"?>
<!-- Screen definitions for standard HTML devices ( MSIE, Netscape, ... )
-->
<node>
  - <operation type = "or" >
    - <operation type = "not" >
      <requirement type = "ccpp" name = "Browser.CCPPAccept.text/html"
        value = "null" />
    </operation>
    <requirement type = "requestHeaderParameter" name = "user-agent"
      value = "Mozilla*" />
    </operation>
    <!-- login page -->
  H1.1 - <node>
    - <operation type = "or" >
      - <operation type = "and" >
        <requirement type = "executionEnvironment" name = "loginBean"
          value = "null" />
        <operation type = "not" >
          <requirement type = "requestParameter" name = "cmd"
            value = "execute_login" />
        </operation>
      </operation>
      <requirement type = "requestParameter" name = "page" value = "login" />
    </operation>
    - <screen ID = "Login.Screen" template = "/html/HTMLLoginTemplate.jsp"
      class = "default" >
      <component name = "Title" value = "HTMLLogin.title" direct = "true"
        base = "com.sun.star.portal.web.jsp.html" />
      <component name = "CurrentContent" value = "/html/HTMLLogin.jsp" />
      <component name = "Error" value = "/html/HTMLLError.jsp" />
    </screen>
  </node>
  <!-- welcome page -->
  H1.2 - <node>
    - <operation type = "or" >
      <requirement type = "executionEnvironment"
        name = "UniversalContentBrokerContent" value = "null" />
      <requirement type = "resourceProperty" name = "PresentationURL"
        value = "staroffice.private:factory/desktop" />
    </operation>
    - <screen ID = "Welcome.Screen" class = "default" >
      <component name = "Title" value = "HTMLWelcome.title" direct = "true"
        base = "com.sun.star.portal.web.jsp.html" />
      <component name = "Shortcuts" value = "/html/HTMLShortcuts.jsp" />
      <component name = "CurrentContent"
        value = "/html/HTMLWelcome.jsp" />
    </screen>
  </node>
  H1.3 - <node>
    <!-- more HTML nodes ... -->
  </node>
  - <substitution name = "$BACKGROUND_PICTURE" >
    <element>
      <requirement type = "userInformation" name = "gender" value = "f" />
      <result value = "HTMLWomensBackground.gif" />
    </element>
  </substitution>
</node>
```

file: //V:\pat\ScreenRegistry\_html.xml

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## *FIG. 10e*

HTML

```
<element>
- <element>
  <<requirement type="userinformation" name="gender" value="m"/>
  <result value="HTMLMensBackground.gif"/>
  <element>
- <element>
  <result value="HTMLdefaultBackground.gif"/>
  </element>
</substitution>
</node>
<!-- End standard HTML description -->

file: //N:\pat\ScreenRegistry_html.xml
```



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WML

xml FILE OF WML NODES

**FIG. 10g**

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- Screen definitions for WAP (WML) devices -->
<node>
- <operation type="or">
- <operation type="not">
- <requirement type="ccpp"
  name="Browser.CCPPAccept.text/vnd.wap.wml" value="null">
</operation>
<requirement type="requestHeaderParameter" name="user-agent"
  value="Wapalizer*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value="Nokia*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value="R380*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value="ERKO UP/4.0.10*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value="ALAV UP/4.0.10*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value="SP01 UP/4.0.10*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value="T250 UP/4.0.10*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value="IM1K UP/4.0.10*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value="MOT-CB/0.0.18 UP/4.0.10*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value="SH UP/4.0.10*"/>
</operation>
- <screen template="/wml/WMLTemplate.jsp" class="wml">
  <component name="Error" value="/wml/WMLError.jsp"/>
</screen>
<!-- login page -->
- <node>
- <operation type="or">
- <operation type="and">
  <requirement type="executionEnvironment" name="loginBean"
    value="null"/>
- <operation type="not">
  <requirement type="requestParameter" name="cmd"
    value="execute_login"/>
</operation>
</operation>
<requirement type="requestParameter" name="page" value="login"/>
</operation>
- <screen template="/wml/WMLLoginTemplate.jsp" class="login">
  <component name="Deck_1" value="/wml/WMLLogin.jsp"/>
  <component name="Error" value="/wml/WMLError.jsp"/>
</screen>
</node>
<!-- welcome page -->
- <node>
  <requirement type="executionEnvironment"
    name="UniversalContentBrokerContent" value="null"/>
- <screen class="wml">
  <component name="Deck_1" value="wml/WMLWelcome.jsp"/>
```

file: //V:\pat\ScreenRegistry\_wml.xml

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**FIG. 10h**

WML

```
</screen >
</node>
<!-- module explorer -->
<node>
- <operation type="or">
  <requirement type="resourceProperty" name="protocol"
    value="file:"/>
  <requirement type="resourceProperty" name="protocol"
    value="ftp:"/>
</operation>
- <screen class="wml">
  - <component name="Deck_1" value="$WMLEXPLOER">
    <argument name="explorertype" value="explorer"/>
    <argument name="title" value="WMLExplorer.documents"/>
  </component>
</screen>
- <node>
  <requirement type="requestParameter" name="cmd"
    value="viewPage"/>
  - <screen class="wml">
    <component name="Action" value="/portal/viewpage"/>
  </screen>
</node>
- <node>
  <requirement type="requestParameter" name="cmd"
    value="rename"/>
  - <screen class="wml">
    <component name="Deck_1" value="WMLRename.jsp"/>
  </screen>
</node>
- <node>
  <requirement type="requestParameter" name="cmd" value="delete"/>
  - </screen class="wml">
    <component name="Action" value="/portal/delete"/>
  </screen>
</node>
- <node>
  <requirement type="requestParameter" name="cmd"
    value="execute_mail"/>
  - <screen class="wml">
    <component name="Action" value="/portal/mail"/>
    - <component name="Deck_1" value="$WMLEXPLOER">
      <argument name="explorertype" value="explorer"/>
      <argument name="title" value="WMLExplorer.documents"/>
    </component>
    <component name="Error"
      value="/wml/WMLMailSendError.jsp"/>
  </screen>
</node>
- <node>
  <requirement type="requestParameter" name="cmd"
    value="execute_new_folder"/>
  - <screen class="wml">
    <component name="Action" value="/portal/newFolder"/>
  </screen>
</node>
- <node>
```

file: //V:\pat\ScreenRegistry wml.xml

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## ***FIG. 10i***

WML

```
<requirement type="requestParameter" name="submodule" />
  value="menu"/>
- <screen template="/wml/WMLTemplate.jsp" class="contextmenu">
  <component name="Deck_1" value="/wml/WMLCommands.jsp"/>
</screen>
</node>
<node>
- <node>
  <!-- more WML nodes ... -->
</node>
- <substitution name="$WMLEXPLOER" >
  - <element>
    <requirement type="requestParameter" name="viewTypeExplorer"
      value="fileview"/>
    <result value="/wml/WMLFileView.jsp"/>
  </element>
  - <element>
    <result value="/wml/WMLFolderView.jsp" />
  </element>
</substitution>
</node>
<!-- End WAP (WML) description -->
```

file: //V:\pat\ScreenRegistry\_wml.xml